

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P709012

Luminaire Tested: **24APR-58-138L835-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709012
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-58-138L835-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient and Exam Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

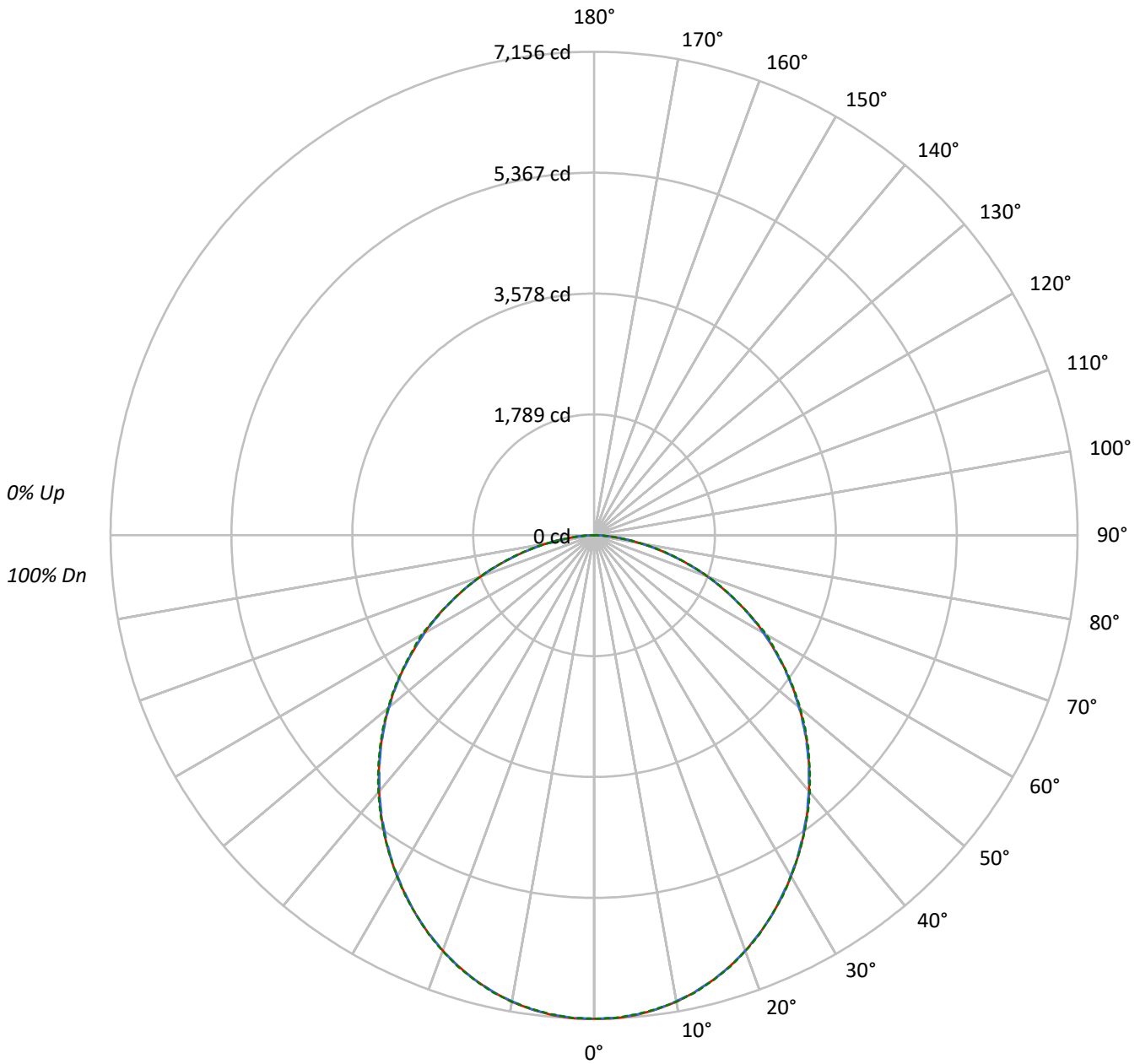
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19312.5 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 155.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P709012
CATALOG NUMBER: 24APR-58-138L835-UNV

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P709012
 CATALOG NUMBER: 24APR-58-138L835-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	63	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9629	9629	9629
5°	9629	9620	9615
10°	9579	9571	9578
15°	9489	9489	9499
20°	9372	9366	9380
25°	9225	9221	9221
30°	9058	9045	9060
35°	8881	8858	8893
40°	8693	8676	8722
45°	8507	8491	8536
50°	8304	8283	8336
55°	8078	8057	8105
60°	7811	7792	7929
65°	7455	7457	7477
70°	7046	7008	7054
75°	6428	6378	6421
80°	5549	5480	5518
85°	4329	4287	4276



TEST NUMBER: P709012
 CATALOG NUMBER: 24APR-58-138L835-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.4	3.5
10°-20°	1920.9	9.9
20°-30°	2860.7	14.8
30°-40°	3379.7	17.5
40°-50°	3447.8	17.9
50°-60°	3076.4	15.9
60°-70°	2319.3	12.0
70°-80°	1300.4	6.7
80°-90°	330.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5457.9	28.3
0°-40°	8837.6	45.8
0°-60°	15361.9	79.5
0°-90°	19312.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19312.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7156	7156	7156	7156	7156	
5°	7130	7126	7123	7124	7119	677
15°	6812	6808	6812	6817	6820	1921
25°	6214	6206	6211	6217	6211	2862
35°	5407	5400	5393	5408	5414	3382
45°	4471	4468	4462	4475	4486	3448
55°	3444	3436	3434	3445	3455	3076
65°	2342	2330	2342	2349	2349	2323
75°	1236	1215	1227	1220	1235	1309
85°	280	270	278	277	277	335
90°	0	0	0	0	0	

TEST NUMBER: P709012

CATALOG NUMBER: 24APR-58-138L835-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7156.4	7156.4	7156.4	7156.4	7156.4
2.5°	7156.4	7152.9	7150.2	7149.5	7150.9
5°	7129.6	7126.1	7122.7	7124.1	7118.6
7.5°	7078.0	7078.7	7076.0	7076.6	7070.5
10°	7011.4	7007.9	7005.2	7011.4	7010.7
12.5°	6921.3	6915.1	6917.9	6927.5	6928.2
15°	6812.0	6807.9	6812.0	6816.8	6819.6
17.5°	6687.6	6684.2	6689.0	6689.7	6695.2
20°	6545.3	6541.2	6541.2	6548.1	6550.8
22.5°	6388.0	6381.8	6383.1	6388.0	6391.4
25°	6214.1	6206.5	6211.3	6216.8	6211.3
27.5°	6026.4	6022.3	6017.5	6024.4	6033.3
30°	5830.5	5822.3	5821.6	5826.4	5831.2
32.5°	5623.7	5614.0	5614.0	5620.2	5624.3
35°	5407.1	5399.6	5392.7	5408.5	5414.0
37.5°	5183.8	5174.8	5174.1	5183.8	5192.7
40°	4949.4	4941.8	4939.8	4956.3	4965.9
42.5°	4713.0	4708.1	4703.3	4719.8	4727.4
45°	4471.0	4468.3	4462.1	4475.1	4486.1
47.5°	4222.2	4213.3	4211.2	4226.3	4237.3
50°	3967.2	3963.8	3956.9	3970.6	3982.3
52.5°	3708.8	3704.7	3699.8	3712.2	3724.6
55°	3443.5	3435.9	3434.5	3444.8	3455.2
57.5°	3167.2	3161.0	3170.6	3180.2	3188.5
60°	2902.6	2888.1	2895.7	2906.7	2946.5
62.5°	2636.6	2611.1	2616.6	2646.9	2629.7
65°	2341.7	2330.0	2342.4	2349.3	2348.6
67.5°	2065.4	2051.6	2070.2	2064.7	2073.0
70°	1791.2	1767.1	1781.5	1783.6	1793.2
72.5°	1508.0	1487.4	1499.7	1505.9	1512.1
75°	1236.5	1215.2	1226.9	1220.0	1235.1
77.5°	966.4	953.3	960.9	965.7	977.4
80°	716.2	701.8	707.3	707.9	712.1
82.5°	485.2	474.3	475.6	488.0	483.2
85°	280.4	270.1	277.7	277.0	277.0
87.5°	109.3	101.0	108.6	107.9	106.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)